

ABSTRACT

A stabilized power supply unit having a current limiting function, comprising a detection transistor impressed with the same control voltage as the output transistor of the power supply unit, adapted to output a detection current which is exactly proportional to the output current, irrespective of the magnitude of the output current. The current detection transistor is controlled by the control voltage controlling the output transistor. A voltage correction unit is provided to control the voltage of the output end of the current detection transistor, equalizing the voltage with the output voltage. This arrangement provides a detection current exactly proportional to the output current.